oncept	Indicator	Source	Geographic Scope	Geographic Scal	Start End e Year Year		equency of dates	Data Source	Quantitative?	Digital?	Units	Proprietary	Cost	Time
Quality														
	Asthma Rates	Chicago Asthma Atlas	City of Chicago	Zip Code	0 0	FALSE 0		The University of Chicago Asthma Center http://chicagoasthmaatlas.org/index.asp	FALSE	FALSE			\$0.00	0
	Continue of the Continue of													
	Air particulate matter excedences (Does the community have air particulate matter above the recommended amount)	Illinois PM2.5 24-hour Exceedance Summary	Metro Chicago	Point locations	0 0	TRUE Dai	ilv	Illinois Environmental Protection Agency http://www.epa.state.il.us/air/	TRUE	FALSE			\$0.00	0
	Good air quality days per year													
	Ozone alert days per year	Illinois Annual Air Quality Report	Metro Chicago	Point locations	1997 2006	TRUE Yea	arly	Illinois Environmental Protection Agency http://www.epa.state.il.us/air/	TRUE	FALSE			\$0.00	0
		IEPA/CNT Chicago - (1) IEPA has state ghg modeling done in 2007 for the IL Climate Change Adv Group (2) CNT + City of Chicago												
	Constant Conf. in item	have been working on a GHG inventory for												
	Greenhouse Gas Emissions Average Air Pollution per Mile Traveled (pub/private)	Chicago + the region (Peter Haas - CNT)		+	+ +									+
	Ecological Conditions	Critical Trends Assessment Program	Metro Chicago	Point locations	1997 2001	TRUE Five	e yearly	Illinois Natural History Survey	TRUE	FALSE	-		\$0.00	0
	Air Quality	AQS Data Mart	Metro Chicago		0 2008	TRUE Dai	ily	US EPA http://www.epa.state.il.us/air/	TRUE	TRUE			\$0.00	0
ter Quality														1
	Wetland Acreage (Functionality)	Wetlands Geodatabase	Metro Chicago	Block	0 0	TRUE 0		US Fish and Wildlife Service http://www.fws.gov/data/statdata/ildata.html	FALSE	TRUE			\$0.00	0
	Combined Sewer Overflow	CSO Monitoring and Reporting Plans	Metro Chicago	Point locations	2000 2008	TRUE Dai	ilv	Metropolitan Water Reclamation District of Greater Chicago http://www.mwrdgc.dst.il.us/	TRUE	TRUE			\$0.00	0
	% of WW from Stormwater (infiltration/inflow)						,							Ě
	Quality of Streams, Rivers and Small Lakes (full attainment of use, meeting DO or bacteria standards, macroinvertebrate													
	populations)	Monitoring Monitoring	Metro Chicago	Point locations	1970 2007	TRUE 0		Metropolitan Water Reclamation District of Greater Chicago http://www.mwrdgc.dst.il.us/	TRUE	TRUE			\$0.00	0
	Quality of Lake Michigan													<u> </u>
	Number of citizens with drinking water below standards													
	Beach closings per year	Bathing Beaches	Metro Chicago	Point locations	1999 2007	TRUE Bi-V	Weekly	Illinois Department of Public Health, http://www.idph.state.il.us/	FALSE	FALSE			\$0.00	0
	New septic-tank permits issued (and total per capita) Wells showing groundwater contamination													+
	Fish species with consumption restricted/cautioned													
	Water Quality of Lakes Aquifer Water Quality			-										₩
	Sensitivity of watersheds													
		See the Wetlands Initiative and the Army Corps												
oding *also see	Annual number of permits to fill wetlands	of Engineers												
GS and US	Flood Impacts (damage valuation) per capita	Watersheds of the Chicago Metropolitan Area	Metro Chicago	Watershed	0 0	FALSE 0		Metropolitan Water Reclamation District of Greater Chicago http://www.mwrdgc.dst.il.us/	TRUE	FALSE			\$0.00	0
rps of Engineers	# Structures in 100-year plane Locations of Flood Control Projects	See FEMA Maps See FEMA Maps	+	+	+ +									$\vdash$
		See Stormwater Floodplain Managers												
	Impervious Surfaces (protected vs. in catchment) Locations of Developments w/in Flood Plane	Association See FEMA Maps												₩
	Locations of Developments w/m Flood Franc	See PEWA Waps		1	1 1									1
t - C - 1 (	FEMA Progress in Recapturing Flood Damaged Housing	See FEMA Maps												
ater Supply (was ater	Gallons of water used daily per capita by Industrial,													
nservation)	Commercial, Aggricultural, Residential	County-Level Forecasts of Water Use in Illinois	Metro Chicago	County	2000 2025	FALSE 0		Project Completion Report for Illinois State Water Survey	TRUE	FALSE			\$0.00	0
	Drinking water supplies abandoned  Demand by use	CMAP will have 2050 demand study by next we	ek											$\vdash$
	Supply by source	CMAP will have supply study by October												
	Water level in Aquifers	Shallow Groundwater Levels Data	Matur Chianna	Daint la antiona	1950 2007	TRUE Mar	mala la c	Winds Code Water Land Common (http://www.ana.ci.org.ala/)	TRUE	TRUE			\$0.00	0
l Quality * See	water level in Aquiters	Sharlow Groundwater Levels Data	Metro Chicago	Point locations	1930 2007	TRUE MO	пину	Illinois State Water Level Survey (http://www.sws.uiuc.edu/)	TRUE	TRUE			\$0.00	U
nois Association														
Soail and Water nservation	Underground fuel tanks	Leaking Underground Storage Tank Incident Tracking	Metro Chicago	Point locations	2005 2008	TRUE Wee	ekly	Illinois EPA http://www.epa.state.il.us/land/	TRUE	TRUE			\$0.00	0
tricts	Onderground ruer tunks	Trucking	Wieuro Cineugo	Tome focutions	2003 2000	TROL WO	ckry	Inmos Di it intp://www.epu.state.ii.us/iana/	TROE	IKCL			ψ0.00	Ť
	Acres of Prime Agricultural Land	Census of Agriculture	Metro Chicago	County	1840 2002	TDIJE Eive	a vaarly	USDA Soil Data Mart http://soildatamart.nrcs.usda.gov/	TRUE	FALSE			\$0.00	0
	Soil Erosion	Census of Agriculture	Metro Chicago	County	1840 2002	TRUE FIVE	e yearry	OSDA Son Data Wart http://sondatamart.ncs.usda.gov/	IKUE	FALSE			\$0.00	U
	Biosolids Metals Exceedances	Biosolids Data and Reports	Metro Chicago	Point locations	2001 2006	TRUE Year	arly	Metropolitan Water Reclamation District of Greater Chicago http://www.mwrdgc.dst.il.us/	TRUE	TRUE			\$0.00	0
nd Conservation	Utilization of sewage sludge Distribution of acres of land per capita for different land	-		+							1		+	$\vdash$
2 2 3 3 7 4 4 4 6 1 7	uses (Diversity of land use in the community by													
	distribution) Land Preserved for Agricultural Use	see easements, also CRP land (set asides)												<u> </u>
	Land Preserved for Agricultural Use  Land Preserved for Conservation	see casements, also CKF failu (set asides)												Γ
id Waste/Recyc	Recycling programs (public, private)													
		Annual Landfill Capacity Reports	Metro Chicago	Point locations	1994 2006	TRUE Yea		Illinois EPA, Land Agency http://www.epa.state.il.us/land	TRUE	FALSE			\$0.00	

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	L			Start			Frequency of			n		Public/		I
Concept	Indicator	Source	Geographic Scope	Geographic Scale Year	Year	Active?	Updates	Data Source	Quantitative?	Digital?	Units	Proprietary	Cost	Time
	Waste landfilled versus amount recycled (and per capita)	Annual Landfill Capacity Reports	Metro Chicago	County 1994	2006	TRUE	Yearly	Illinois EPA, Land Agency http://www.epa.state.il.us/land	TRUE	FALSE			\$0.00	0
	Waste landfilled versus amount recycled (and per capita)	Blue bag results	City of Chicago	1995	2005	TRUE	Semi-annually	Chicago Recycling Coalition	TRUE	FALSE			\$0.00	0
	Ammount of Construction and Demolition Debris									1				
	Businesses cooperatives for recycling and waste disposal													i
	Recovery rate of recycled materials													
Open Space *check		Illinois Land Trusts												
Land	Easements - Acreage (conservation and agriculture preservation)	Counties												,
	· · · · · · · · · · · ·	Look to Forest Preserve Districts - they may need												
	Acres parks and protected land (perhaps per capita )	to be aggregated; Also try IL Association of Park Districts,												,
	Recreational trail miles	Districts,												_
	Farmland (and as % of Open Space)													
	Value of Protected Lands													
Diadioanita *abaal	Brownfield Sites Endangered/rare Species													
Biodiversity *check the Field Museum	Regionally appropriate vegetation												-	
Total Widoculli	Urban Tree Canopy				1				1	<b>†</b>				
		See Village of Schaumburg "green corridors" &												
	Habitat Patch Size/Connectivity	CW Green Infrastructure Vision							+	<del>                                     </del>			1	-
	Presence of Invasive Species	see USGS BCN Census	Metro Chicago	Metro Chicago 1007	2004	FAISE	> Five yearly	Bird Conservation Network http://bcnbirds.org/	TRUE	FALSE			\$0.00	0
Recreation	Park Use	Derv Census	Meno Cilicago	Metro Chicago 1997	2004	TALSE	- Tive yearry	Dire Conservation Network http://ochonius.org/	TRUE	FALSE			φ <del>υ</del> .υυ	<u></u>
	Waterway Use (access points?)													
Pollution	Illegal Dumping													
	Neighborhood Toxic Volumes		1. O	D. 1. 1	2006	mp I I		VIOLENT CENTRAL AND	TOD A VID	mp i in				
	Toxic Release Hazardous waste sites cleaned or being cleaned	TRI (Toxic Release Inventory) Explorer	Metro Chicago	Point locations 1988	2006	TRUE	Yearly	US EPA TRI Program http://epa.gov/tri/	TRUE	TRUE			\$0.00	0
	Lead Poisoning													
	biosolids metals excedence													
	Maximum Pollutant Standard Index													
Energy	Gasoline consumption per capita versus state average (Does													,
to Rob Kelter at the	the community consume a disproportionate amount of													,
Env. Law and	Energy use per capita (and by residential, industrial,													
Policy Center. IL	commercial)													
Power Agency just	Energy expenditure as % of gross community product												1	
now setting up shop - will track all of	Total electricity demand Total natural gas demand													$\overline{}$
this	Peak load demand													
	Home heating fuel source (What are the major types of fuel	Residential Sector Energy Consumption												
	sources and are they sustainable)	Estimates	Metro Chicago	State 1960	2005	TRUE	Yearly	US Energy Information Administration http://www.eia.doe.gov/	TRUE	TRUE			\$0.00	0
	Natural gas vs. Coal use per person per year (energy)									-			-	$\overline{}$
	Renewable Energy Use (both Utility and Household Scale)	see Energy Index from utilities												,
	,													
D :	Generation of Energy mix over time	State Energy Consumption	Metro Chicago	State 1960	2005	TRUE	Yearly	US Energy Information Administration http://www.eia.doe.gov/	TRUE	TRUE			\$0.00	0
Environmental	% of Natural Areas that are Managed and/or Monitored													,
cities" = see US	Wildlife habitat restoration programs													
conference of	Agriculture and household hazardous waste collection													,
Mayors' Climate	programs												1	
Protection Agreement;	Population perceiving pollution as a priority (see Field Museum "Calumet Stewardship" study)													,
	Energy conservation programs													
may have volunteer	Concern for the Environment													
participation data	Environmental justice awareness programs (Is the													,
	community aware of environmental racism and justice)  Nature and environmental groups (student and adult)						-		+	+			1	
	Community garden programs			+	1	+			+	+			<del>                                     </del>	-
	Ecological Restoration and Access Projects (could be									1			1	
	investment)								1	1			1	السا
Watershed Planning	Wetselved Dismiss (respect to 2000)													,
Other	Watershed Planning (research ongoing) % Local Food Consumption from Local Farmland				1				+	+			+	-
3101	Pesticide Use				1		1		1	†			†	-
	Ecological Footprint													
	Market sensitivity of Environmental Amenities	i	· · · · · · · · · · · · · · · · · · ·	1 -	1	_		1	1	1	. 7		1	

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Concept	Indicator	Means of Acquiring	Legal Barriers to Public Dissemination	Reliability	Sampling Interval
Air Quality					and the second
	Asthma Rates	http://chicagoasthmaatlas.org/ with interactive charts. Possible candidate for web scraping.		Combination of telephone surveys of adults using weighted cluster sampling, along with mortality records, hoapital discharge records, and pharmacy prescription records.	
	Air particulate matter excedences (Does the community have air particulate matter above the recommended amount)	Web scraning possible			
	Good air quality days per year	web scraping possible.			
	Ozone alert days per year	http://www.epa.state.il.us/air/air-quality-report/index.html			
	Greenhouse Gas Emissions				
	Average Air Pollution per Mile Traveled (pub/private)				
	Ecological Conditions	Copy indices of taxa richness, habitat score, etc. from bar charts http://ctap.inhs.uiuc.edu/data/data.asp	none	Indicators are somewhat subjective. 2002-2006 not available yet.	Hourly
	Ecological Collutions	Register on-line. They then phone and confirm you as a user, providing a	none	indicators are somewhat subjective. 2002-2000 not available yet.	Hourry
	Air Quality	usernmae and password.	Must cite the Data Mart as a source i	Highly reliable. QC'd before release.	
Water Quality		Wetlands polygons can be dwonloaded from			
	Wetland Acreage (Functionality)	http://wetlandswms.er.usgs.gov/imf/imf.jsp?site=extract_tool. These must be analyzed in a GIS to determine acreage.		Taken from 1:24,000 scale maps.	
	wettand Acreage (Functionality)	download from web site as Excel spreadsheets for each of six pumping		Taken nom 1.24,000 scale maps.	
		stations.			
	Combined Sewer Overflow	http://www.mwrdgc.dst.il.us/mo/csoapp/excelfiles/PS_Activity.xls	None	High	
	% of WW from Stormwater (infiltration/inflow) Quality of Streams, Rivers and Small Lakes (full attainment				
	of use, meeting DO or bacteria standards, macroinvertebrate				
	populations)	Download Excel spreadsheets http://www.mwrdgc.dst.il.us/	none	high	Weekly
	Quality of Lake Michigan				
	Number of citizens with drinking water below standards				
	Beach closings per year	Web scraping, http://www.idph.state.il.us/envhealth/beachhome.htm			
	New septic-tank permits issued (and total per capita)	web scraping, http://www.raph.state.n.us/enviicarui/beacimonic.nun			
	Wells showing groundwater contamination				
	Fish species with consumption restricted/cautioned				
	Water Quality of Lakes Aquifer Water Quality				
	Sensitivity of watersheds				
	Annual number of permits to fill wetlands				
Flooding *also see USGS and US	Flood Impacts (damage valuation) per capita	http://www.mwrdgc.dst.il.us/Engineering/OurCommunityFlooding/OCF Diagram0103.htm			Hourly
Corps of Engineers	# Structures in 100-year plane	Diagramo 105.htm	none		Hourry
3	Locations of Flood Control Projects				
	Impervious Surfaces (protected vs. in catchment)				
	Locations of Developments w/in Flood Plane				
	FEMA Progress in Recapturing Flood Damaged Housing				
Water Supply (was		Download from Web.			
Water	Gallons of water used daily per capita by Industrial,	http://www.geography.siu.edu/geography_info/research/documents/ISWS			S. A
Conservation)	Commercial, Aggricultural, Residential Drinking water supplies abandoned	_IL_Water_Use_Projections.pdf	none		> Annually
	Demand by use				
	Supply by source				
	W. c. L. d. C.			III I W II I was a ci d was II	
Soil Quality * See	Water level in Aquifers	direct download, http://www.sws.uiuc.edu/warm/sgwdata/wells.aspx	none	High. Wells locared in areas not influenced by pumping.	
Illinois Association				The Leaking Underground Storage Tank Incident Tracking ("LIT") database identifies the	
of Soail and Water				status of all Illinois LUST incidents reported to the Illinois Emergency Management Agency	
Conservation	Underground fuel tanks	http://epadata.epa.state.il.us/land/ust/	??	("IEMA") and to the Illinois Environmental Protection Agency.	
Districts		download pdf http://www.nass.usda.gov/census/census02/volume1/il/st17 2 008 008.p			
	Acres of Prime Agricultural Land	df 2007 Census Data available in 2009			Annually
	Soil Erosion				
	Biosolids Metals Exceedances	Download Excel spreadsheets http://www.mwrdgc.dst.il.us/	None	High	Weekly
Land Conservation	Utilization of sewage sludge Distribution of acres of land per capita for different land				
Land Conservation	uses (Diversity of land use in the community by distribution)				
	Land Preserved for Agricultural Use		1	I	ı
	Land Preserved for Conservation				
Solid Waste/Recycl	Recycling programs (public, private)				
	Composting sites	web scraping http://www.epa.state.il.us/land/landfill-capacity/index.html	None	High	
	Composting sites	web scraping http://www.epa.state.ii.us/iand/iandiii-capacity/index.html	None	High	

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	To Post of	W	Legal Barriers to Public	D.E. L.E.	G
Concept	Indicator	Means of Acquiring	Dissemination	Reliability	Sampling Interval
	Waste landfilled versus amount recycled (and per capita)	web scraping http://www.epa.state.il.us/land/landfill-capacity/index.html	none	high	
		Copy from web-based charts.			
	Waste landfilled versus amount recycled (and per capita)	http://www.chicagorecycling.org/index.php?option=com_content&task=view&id=97&Itemid=122	none		Semi-annually
	Ammount of Construction and Demolition Debris				
	Di				
	Businesses cooperatives for recycling and waste disposal Recovery rate of recycled materials				
	Land Trust – Acreage				
	Easements - Acreage (conservation and agriculture preservation)				
Land	preservation)				
	Acres parks and protected land (perhaps per capita ) Recreational trail miles				
	Farmland (and as % of Open Space)				
	Value of Protected Lands				
	Brownfield Sites Endangered/rare Species				
the Field Museum	Regionally appropriate vegetation				
	Urban Tree Canopy				
	Habitat Patch Size/Connectivity				
	Presence of Invasive Species				
D .:	Bird Counts	scan? Web scraping?		Member sightings	> Annually
Recreation	Park Use Waterway Use (access points?)				
Pollution	Illegal Dumping				
	Neighborhood Toxic Volumes		NY.	Tr. 1	
	Toxic Release  Hazardous waste sites cleaned or being cleaned	download http://www.epa.gov/triexplorer/	None	High	
	Lead Poisoning				
	biosolids metals excedence				
Energy	Maximum Pollutant Standard Index Gasoline consumption per capita versus state average (Does				
Conservation - Talk	the community consume a disproportionate amount of				
to Rob Kelter at the Env. Law and	gasoline) Energy use per capita (and by residential, industrial,				
	commercial)				
	Energy expenditure as % of gross community product				
	Total electricity demand Total natural gas demand				
this	Peak load demand				
	Home heating fuel source (What are the major types of fuel				
	sources and are they sustainable) Natural gas vs. Coal use per person per year (energy)	http://www.eia.doe.gov/emeu/states/sep_use/res/use_res_il.html	none	high	Annually
	ivaturai gas vs. Coai use pei person pei year (energy)				
	Renewable Energy Use (both Utility and Household Scale)				
	Generation of Energy mix over time	Downloadable Excel spreadsheet http://www.eia.doe.gov/emeu/states/sep_use/total/csv/use_il.csv	none	high	Annually
Environmental	Constitution of Energy mark over time	inp.//www.doc.go//oned/suites/sop_use/total/es//use_ines/			, imaging
	% of Natural Areas that are Managed and/or Monitored				
	Wildlife habitat restoration programs  Agriculture and household hazardous waste collection				
Mayors' Climate	programs				
	Population perceiving pollution as a priority (see Field Museum "Calumet Stewardship" study)				
	Energy conservation programs				
may have volunteer	Concern for the Environment				
participation data	Environmental justice awareness programs (Is the community aware of environmental racism and justice)				
	Nature and environmental groups (student and adult)				
	Community garden programs				
	Ecological Restoration and Access Projects (could be investment)				
Watershed Planning	investment)				
	Watershed Planning (research ongoing)				
Other	% Local Food Consumption from Local Farmland Pesticide Use				
	Ecological Footprint				
	Market sensitivity of Environmental Amenities				

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